

Title (en)

METHOD FOR THE MANUFACTURE OF ELECTRODES FOR ENERGY-STORAGE DEVICES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ELEKTRODEN FÜR ENERGIESPEICHERVORRICHTUNGEN

Title (fr)

PROCEDE DE FABRICATION D'ELECTRODES POUR DES DISPOSITIFS DE STOCKAGE D'ENERGIE

Publication

**EP 1547172 A1 20050629 (EN)**

Application

**EP 03754715 A 20030915**

Priority

- US 0329363 W 20030915
- US 41338302 P 20020925

Abstract (en)

[origin: US7563354B2] Application of a redox polymer of the poly-[Me(R-Salen)] type onto a conducting substrate is accomplished by the method of electrochemical polymerization. Said polymerization is accomplished by supplying a voltage between the substrate (that serves as an anode) and a counter electrode (that serves as a cathode), with both of them being submerged into the electrolyte containing an organic solvent and the compounds capable of dissolving in said solvent. The process is accompanied by the production of electrochemically inactive (at concentrations of no less than 0.01 mol/l) ions within the range of potentials from -3.0 V to +1.5 V, and metal complex [Me(R-Salen)] dissolved at a concentration of no less than 5·10<sup>-5</sup> mol/l, (where: Me is a transition metal having at least two different degrees of oxidation, R is an electron-donating substituent, Salen is a residue of bis-(salicylaldehyde)-ethylenediamine in Schiff's base.

IPC 1-7

**H01M 4/04**

IPC 8 full level

**H01G 9/04** (2006.01); **H01G 9/155** (2006.01); **H01M 4/137** (2010.01); **H01M 4/60** (2006.01)

CPC (source: EP KR US)

**C08G 12/06** (2013.01 - EP US); **H01G 9/0036** (2013.01 - EP US); **H01G 11/86** (2013.01 - EP US); **H01M 4/0438** (2013.01 - EP US); **H01M 4/0452** (2013.01 - EP US); **H01M 4/0466** (2013.01 - EP US); **H01M 4/137** (2013.01 - EP US); **H01M 4/139** (2013.01 - KR); **H01M 4/606** (2013.01 - EP US); **H01M 10/05** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP); **Y02E 60/13** (2013.01 - US)

Cited by

CN105261758A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004030123 A1 20040408**; AT E336082 T1 20060915; AU 2003272528 A1 20040419; CA 2500348 A1 20040408; CA 2500348 C 20130423; DE 60307489 D1 20060921; DE 60307489 T2 20070215; EP 1547172 A1 20050629; EP 1547172 B1 20060809; ES 2270081 T3 20070401; HK 1079907 A1 20060413; HK 1079907 B 20061110; JP 2006500784 A 20060105; JP 4482453 B2 20100616; KR 100755284 B1 20070905; KR 20050075338 A 20050720; RU 2005113150 A 20050910; US 2005217998 A1 20051006; US 7563354 B2 20090721

DOCDB simple family (application)

**US 0329363 W 20030915**; AT 03754715 T 20030915; AU 2003272528 A 20030915; CA 2500348 A 20030915; DE 60307489 T 20030915; EP 03754715 A 20030915; ES 03754715 T 20030915; HK 05112094 A 20051229; JP 2004540107 A 20030915; KR 20057005236 A 20050325; RU 2005113150 A 20030915; US 8850905 A 20050324